



# Precalculus: Trigonometric Functions

Name \_\_\_\_\_ Date \_\_\_\_\_

Find the trigonometric value of the special angles given in degrees

(1)  $\csc 270^\circ$

(2)  $\cot 60^\circ$

(3)  $\cos 45^\circ$

(4)  $\sin 210^\circ$

(5)  $\sin 300^\circ$

(6)  $\sec 90^\circ$

(7)  $\sin 30^\circ$

(8)  $\cot 300^\circ$

(9)  $\cot 150^\circ$

(10)  $\sec 30^\circ$

(11)  $\sec 330^\circ$

(12)  $\sin 180^\circ$



## Answers

Find the trigonometric value of the special angles given in degrees

$$(1) \quad \csc 270^\circ$$

$$= -1$$

$$(2) \quad \cot 60^\circ$$

$$= \frac{\sqrt{3}}{3}$$

$$(3) \quad \cos 45^\circ$$

$$= \frac{\sqrt{2}}{2}$$

$$(4) \quad \sin 210^\circ$$

$$= -\frac{1}{2}$$

$$(5) \quad \sin 300^\circ$$

$$= -\frac{\sqrt{3}}{2}$$

$$(6) \quad \sec 90^\circ$$

$$= \infty$$

$$(7) \quad \sin 30^\circ$$

$$= \frac{1}{2}$$

$$(8) \quad \cot 300^\circ$$

$$= -\frac{\sqrt{3}}{3}$$

$$(9) \quad \cot 150^\circ$$

$$= -\sqrt{3}$$

$$(10) \quad \sec 30^\circ$$

$$= \frac{2\sqrt{3}}{3}$$

$$(11) \quad \sec 330^\circ$$

$$= \frac{2\sqrt{3}}{3}$$

$$(12) \quad \sin 180^\circ$$

$$= 0$$